

What is claimed is:

1. A connector comprising:
a shielded transition block having shielding configured to extend beyond a
5 center pin tip of a coaxial transmission structure.

2. The connector of claim 1 further including:
a first hole configured to accept a coaxial interface having a center pin;
a second hole extending away from the first hole, the second hole having a
10 diameter selected to form a controlled impedance air line with the center pin;
a flange configured to support the shielded transition block in a cutout of a
printed circuit board and to be soldered to a surface of the printed circuit board;
and an opening from the second hole to the flange configured to allow the
center pin to extend into the opening and to be soldered to a solder pad on the surface of
15 the printed circuit board.

3. The connector of claim 1 further comprising:
a coaxial connector interface;
a center pin support; and
20 a center pin having a center pin portion extending away from the center pin
support to the center pin tip.

4. The connector of claim 3 wherein the coaxial interface is integrated with
the shielded transition block.
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5. The connector of claim 3 wherein the shielded transition block forms a
controlled impedance structure with the center pin portion.

6. The connector of claim 3 wherein the shielded transition block forms a
30 controlled impedance airline structure with the center pin portion.

7. The connector of claim 3 wherein the pin support comprises a glass-to-
metal seal.

35 8. The connector of claim 3 further comprising

a view port in the shielding providing a view of the center pin portion.

9. The connector of claim 8 further comprising
a lid configured to seal the view port.

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10. The connector of claim 3 wherein the shielded transition block further comprises sidewalls configured to support the edge launch connector on a surface of a printed circuit board.

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11. The connector of claim 1 further comprising:
a coaxial connector interface;
a center pin; and
a printed circuit board having

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a shielding solder area at an edge of the printed circuit board
soldered to the shielding, and
a center pin solder pad at an edge of the printed circuit board
soldered to the center pin.

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12. The connector of claim 11 wherein the printed circuit board further comprises:
a center conductor of a planar controlled impedance transmission structure,
and
a center conductor via electrically coupling the center pin solder pad to the center conductor.

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13. The connector of claim 12 further comprising a plurality of ground vias coupled to an outer conductor of the coaxial connector interface and selectively disposed in relation to the center conductor via to improve impedance continuity between the coaxial connector interface and the planar controlled impedance transmission structure.

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14. The connector of claim 13 further comprising mechanical vias in the shielding solder area.

15. The connector of claim 11 wherein the printed circuit board further comprises:

5 a cutout in the edge of the printed circuit board; and
sidewalls extending from the shielded transition block to engage the
cutout.

16. An edge launch connector comprising:

means for a coaxial connector interface;

10 means for mounting the edge launch connector on a surface of a printed
circuit board during a solder re-flow process;

means for transitioning from the means for a coaxial connector interface to
a controlled impedance transmission structure on the printed circuit board; and

15 means for electromagnetically shielding the means for transitioning from
the means for a coaxial connector interface to the controlled impedance transmission
structure, the means for electromagnetically shielding extending beyond the means for
transitioning.